



## State of Utah

### Department of Natural Resources

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### Division of Oil, Gas & Mining

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*Lieutenant Governor*

June 14, 2006

CERTIFIED RETURN RECEIPT  
7004 2510 0004 1824 3786

West Valley Sand & Gravel  
Kelly Lloyd  
4800 South Highway 40  
Heber, Utah 84032

Subject: Initial Review of Notice of Intention to Commence Large Mining Operations,  
West Valley Sand & Gravel, Daniels Canyon Pit, M/051/008, Task ID# 1357,  
Wasatch County, Utah

Dear Mr. Lloyd:

The Division has completed our review of your draft Notice of Intention to Commence Large Mining Operations for the Daniels Pit, located in Summit County, Utah, which was received March 22, 2006. The attached comments will need to be addressed before tentative approval may be granted.

The comments are listed under the applicable Minerals Rule heading; please format your response in a similar fashion. **Please address only those items requested in the attached technical review** by sending replacement pages of the original mining notice using redline and strikeout text, so we can see what changes have been made. After the notice is determined technically complete and we are prepared to issue final approval, we will ask that you send us two clean copies of the complete and corrected plan. Upon final approval of the permit, we will return one copy stamped "approved" for your records. Please provide a response to this review by July 25, 2006.

If you have any questions in this regard please contact me, Lynn Kunzler, or Doug Jensen of the Minerals Staff. Thank you for your cooperation in completing this permitting action.

Sincerely,

Susan M. White  
Mining Program Coordinator  
Minerals Regulatory Program

SMW:LK:pb

Attachment: Review

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# REVIEW OF NOTICE OF INTENTION TO COMMENCE LARGE MINING OPERATIONS

## West Valley Sand & Gravel Daniels Canyon Pit

M/051/008  
June 13, 2006

### R647-4-104 - Operator's, Surface and Mineral Ownership

Please provide the name and address of the mineral owner(s), and well names and addresses of adjacent land owners. (LK)

### R647-4-105 - Maps, Drawings & Photographs

#### *105.1 Topographic base map, boundaries, pre-act disturbance*

Maps 105.1b, 105.1d, 105.1e, and 105.2a, are black & white copies of maps which apparently had various features color-coded. Please provide color copies of these maps. (LK)

#### *105.2 Surface facilities map*

The legend on Map 105.1b states "See Drawing D-1 for Details", I was unable to find drawing D-1 in the submittal. Please furnish drawing D-1 to allow the Division to review the document. (DJ)

Please furnish a surface facilities map showing each facility, this map should be at a scale of a minimum of 1"=200' in order to show the required detail. (DJ)

Map 105.1b shows a "detention pond" near the highway on the northwest corner of the property, Map 105.1d does not include that area as a part of the disturbance. In addition to the pond there is a berm of material along the highway and to the north, screening the operation from the highway and neighbors. All of these items are considered mining related disturbances and should be included as a part of the disturbed area of the permit application. (DJ)

Map 105.2a identifies various areas within the site with cross-hatched outlines. It is hard to differentiate areas on this map due to the fact that the map is a black and white version of a color map. Please furnish a map of the surface facilities showing the actual facilities as opposed to general outlines of the facilities. (DJ)

Map 105.3a shows that the area in the northern portion of the property is the extent of the disturbance. Pictures included in the application seem to indicate that the disturbance at the site extends further to the south. Please review the disturbances at the site and correct the map accordingly. (DJ)

#### *105.3 Drawings or Cross Sections (slopes, roads, pads, etc.)*

Map 105.3a should show areas of the site that are to receive various reclamation treatments shaded, cross hatched or color coded to identify which treatments will be applied. Map 105.3a shows an outline of disturbance of the site but reclamation treatments to the site are not indicated. Please complete the map showing the reclamation plan for the site. (DJ)



The enclosed Map 105.3a shows the extent of the area to be reclaimed after mining (approximately 46.5 acres). Map 105.3b show the extent of mining to encompass the entire 98.64 acres of the site. Please make the appropriate changes to either of these maps to allow for continuity. (DJ)

## **R647-4-106 - Operation Plan**

### *106.1 Operations Plan*

Map 106.1 shows the original contours at the site and shows the four phases of mining planned at the site. Section 107 of the plan contains the conditional use permit from Wasatch County which states that Phases I & II must be completed and restoration and revegetation completed before Phase III will be permitted. Viewing other maps contained in this submittal it appears that mining has impacted Phase III and there has been no reclamation in the Phase I & II areas. Has Valley obtained permission from Wasatch County to change the terms of the conditional use permit?

Section 647-4-106 Operation Plan is included in several areas of the plan in various stages of completeness. The plan should be review and all extraneous material eliminated. (DJ)

The Wasatch County Conditional Use Permit states that the operating hours of the pit is to be 7 AM to 6 PM. In the operation plan the hours of operation are listed as 6 AM to 8 PM. Has the change in the hours of operation been approved by the County? Please include a copy of this approval with the plan. (DJ)

The plan states that an air quality permit has been issued to this quarry. Please include a copy of this permit in the plan. (DJ)

### *106.2 Type of operations conducted, mining method, processing etc.*

The plan states that Phase II will be to excavate the operational area down near the final grade 40. Please explain what is meant by the term "grade 40". (DJ)

### *106.3 Estimated acreages disturbed, reclaimed, annually.*

Map 106.3b seems to be a representation of the areas of disturbance at the site. While this is an identification of the various areas within the present operation, this map does not show the extent of disturbance at the site. Please include the entire area presently disturbed at the site as a part of this application. (DJ)

The estimated acreage under this section is shown as 25.9 acres. Map 105.3a & Map 105.3b indicates that the estimated acres to be disturbed as ~46.5 acres or 98.64 acres. Please adjust the number in the estimated acreage to agree. (DJ)

### *106.5 Existing soil types, location, amount*

Please provide the results of an order 3 survey (this is probably available from the Natural Resources Conservation Service). This will provide the general soil classification and average depth. In addition, you will need to have a soil sample (a composite sample from the stockpiled materials) analyzed by a qualified lab for the following parameters: pH, Ec (conductivity), CEC (cation exchange capacity), SAR (sodium absorption ratio), % organic mater, and NPK. This will allow the Division to determine what amendments, if any, may be needed for revegetation establishment. (LK)



One portion of the plan indicates that the depth of soil is 6" and another area it is shown as 1 foot deep, and yet another area of the plan identifies only 2-4 inches. Please correct to provide consistency in the plan. The same is true for topsoil replacement, one part of the plan states 6 inches will be replaced, while other sections identify only 4 inches. Actual depth of topsoil will be identified in the soil survey requested under R647-4-106.5 (LK & DJ)

*106.7 Existing vegetation - species and amount*

Please provide the results of a vegetation survey for this site. At a minimum, this survey needs to provide the percent ground cover of vegetation and a list of the species present. Since the current area is disturbed, the survey should be conducted on the adjacent areas that would be representative of the vegetation that would have been on the site. (LK)

**R647-4-107 - Operation Practices**

*107.5 Suitable soils removed & stored*

Until the results of the soil survey are reviewed (see R647-4-106.5), compliance cannot be fully evaluated for this rule. (LK)

*107.6 Concurrent reclamation*

The Wasatch County Conditional Use Permit states the Phase I & II will be reclaimed as Phase III is mined. Will the quarry be completed as outlined in this plan? (DJ)

**R647-4-109 - Impact Assessment**

*109.3 Impacts on existing soils resources*

Please refer to comments under R647-4-110.5 (revegetation plan). (LK)

**R647-4-110 - Reclamation Plan**

*110.1 Current & post mining land use*

The plan identifies the post mining land use as wildlife and graveling. Please describe graveling. Note, the post mining land use is what the site will be used for after final reclamation - graveling has a connotation of continued mining related activity. Please describe an appropriate post mining land use (i.e. grazing and wildlife habitat). (LK)

*110.5 Revegetation planting program*

Please plan to rip or roughen the regraded slopes on the contour prior to seeding. (LK)

It may be necessary to add a soil amendmentsuch as composted manure or biosolids. This cannot be determined until the soil analysis requested under R647-4-106.5 is submitted. (LK)

The proposed seed mix is not likely to provide a permanent, diverse vegetation capable of meeting the post mining land use. Please provide an acceptable seed mix for final reclamation. Ideally, the seed mix should include 3-5 species each of grasses, forbs, and shrubs (12-15 species total). Native species should be emphasized. Seeding rate should target between 80 - 120 pure live seeds (PLS) per square foot (12- 15 pounds per acre PLS). Seeding rates should be specific for each species, not as a percent of the mix (15% of 30 lbs for sagebrush as proposed would provide 4.5 lbs of seed, for a total of about 260 seeds per sq. foot). Please note, while developing your seed mix, 0.1 lb/ac. of sagebrush and 0.2 lb/ac. of



rabbitbrush are adequate seeding rates. If crested wheatgrass is needed, it should not be seeded at a greater rate than 0.5 lbs/ac. Other species to consider for your site would include Thickspike wheatgrass, Bluebunch wheatgrass, Western wheatgrass, Great basin wildrye, Mountain brome, Palmer penstemon Pacific aster, Small burnet, Yarrow, Lewis flax, Serviceberry, Forage kochia, and Bitterbrush.

**R647-4-111 - Reclamation Practices**

*111.5 Land capable of post mining land use*

Until comments under R647-4-110 are addressed, this section cannot be evaluated. (LK)

*111.12 Topsoil redistribution*

Until comments under R647-4-106.5 are resolved, this section cannot be fully evaluated. Please note, after reapplying topsoil, the area should be ripped on the contour to roughen the surface and break slippage planes. (LK)

*111.13 Revegetation*

Refer to comments under R647-4-110.5. (LK)

**R647-4-113 – Surety**

The Division will need to be named on the surety. The current surety with Wasatch County will need to be reviewed and possibly adjusted once the final plan is ready for approval. At this time, do not make any changes to the current surety. (DJ)

**R647-4-115 - Confidential Information**

The submittal notes that confidential material is contained in the plan. Please identify the confidential material so the Division can remove this information before the plan is made public. (DJ)



**SENDER: COMPLETE THIS SECTION**

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WEST VALLEY SAND & GRAVEL  
4800 S HWY 40  
HEBER UT 84032

PB 6/14/06 mo510008

2. Article Number

(Transfer from service label)

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☒ *Melissa Sorenson* ☐ Agent  
☐ Addressee

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6-15-06

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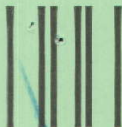
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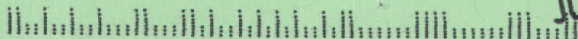
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